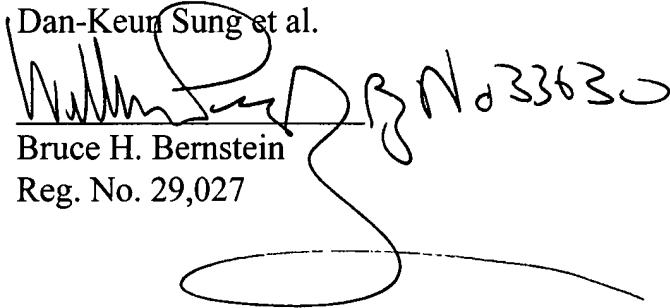Should the Examiner have any questions or comments about the above, he is respectfully requested to contact the undersigned at the below-listed telephone number.

Respectfully submitted,
Dan-Keun Sung et al.

Bruce H. Bernstein
Reg. No. 29,027

July 2, 2002
GREENBLUM & BERNSTEIN, P.L.C.
1941 Roland Clarke Place
Reston, VA 20191
(703) 716-1191

MARKED-UP COPY OF THE CLAIMS

1. (Amended) A method for multi-dimensional orthogonal resource hopping multiplexing communication comprising a digital communication system that includes a primary communication station and secondary communication stations and a multi-dimensional orthogonal resource hopping multiplexing system <u>allowing collision among multi-dimensional orthogonal resource hopping patterns within some data symbol durations</u> for statistical multiplexing of the synchronous communication channels from said primary communication station to the secondary communication stations.

3. (Amended) The method for multi-dimensional othogonal resource hopping multiplexing communication as claimed in claim 1,

wherein said channels [can be distinguished] <u>are configured to be distinguishable</u> through hopping multi-dimensional orthogonal resource coordinates <u>for synchronous communication channels</u> from said primary communication station to a plurality of secondary communication stations.

59. (Amended) An apparatus for multi-dimensional orthogonal resource hopping multiplexing communication <u>allowing collision among multidi-mensional orthogonal resource hopping patterns within some data symbol durations</u> comprising a digital

4

communication system for multi-dimensional orthogonal resource hopping multiplexing

which operates with two exclusive orthogonal resource groups comprising[;]:

a first orthogonal resource group <u>comprising orthogonal resources only</u> for a

division multiplexing by fixed and exclusive allocation of orthogonal resources

a second orthogonal resource group <u>comprising orthogonal resources only</u> for a

statistical multiplexing through orthogonal resource hopping.